WAECO
by Dometic GROUP

CF-110

CF-80

WAECO CoolFreeze
CF-80, CF-110

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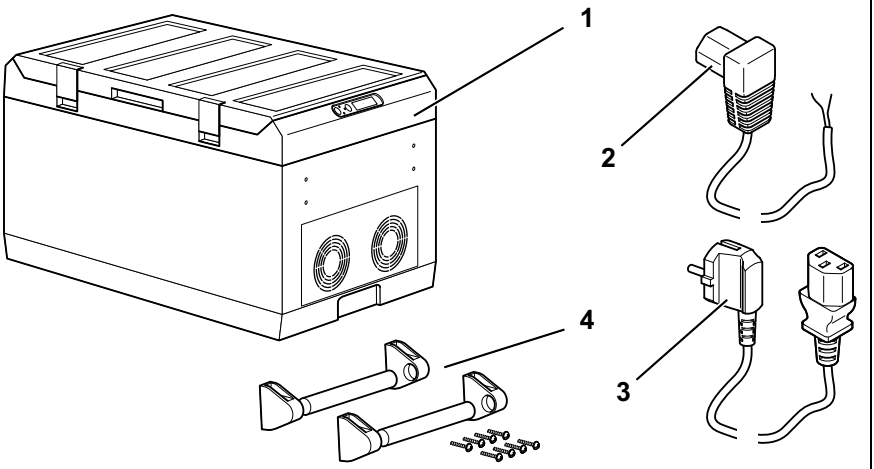
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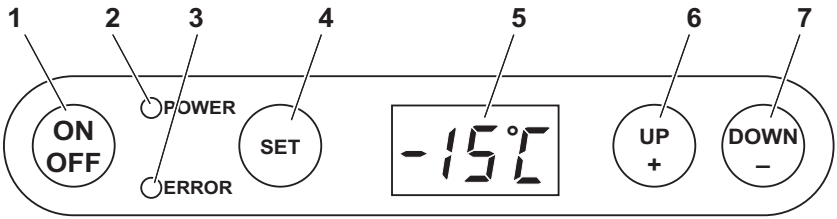
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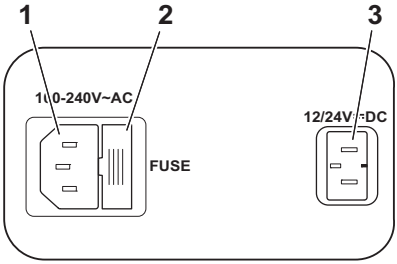
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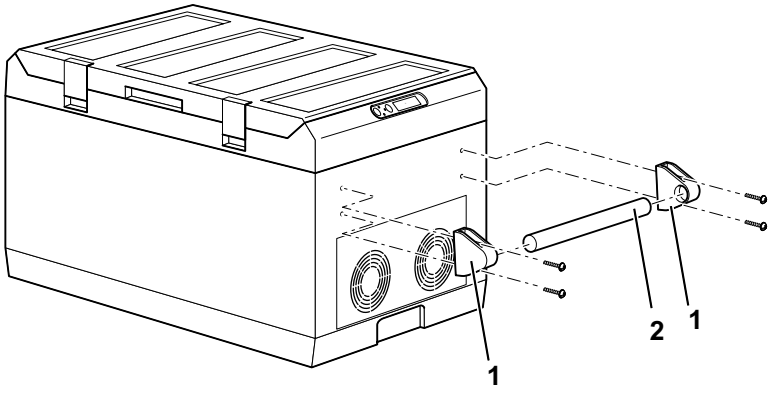

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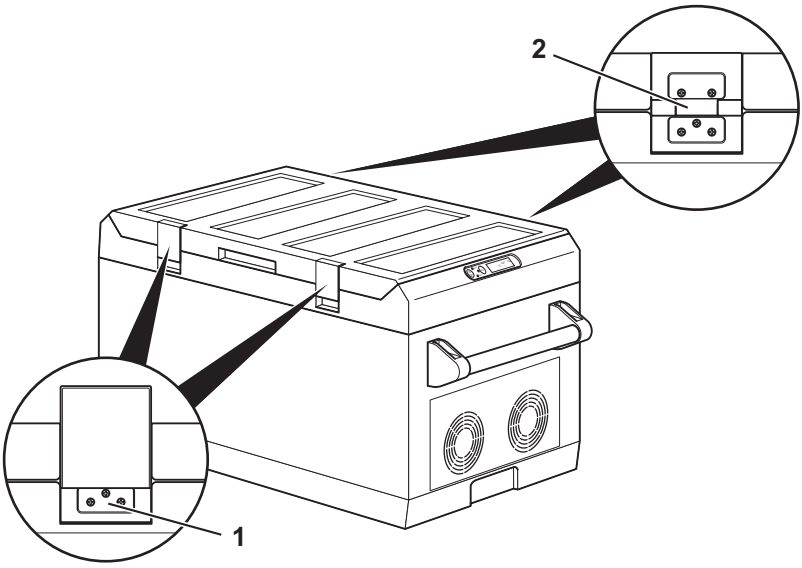

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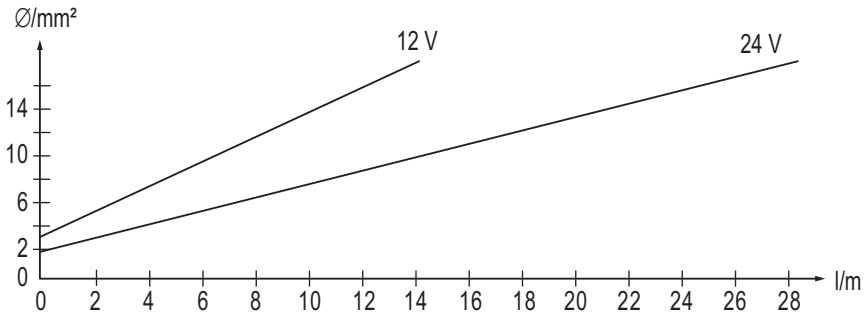
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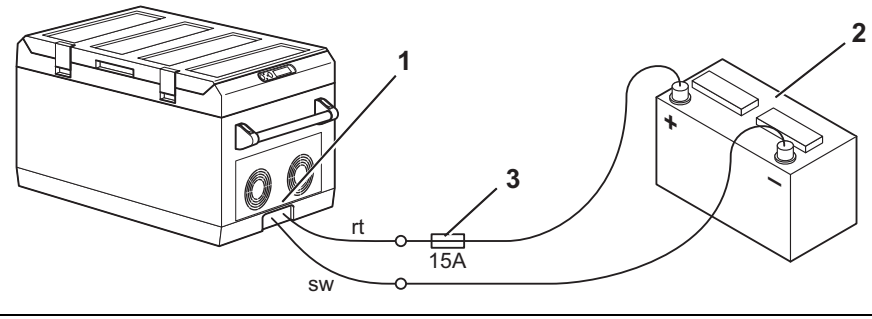
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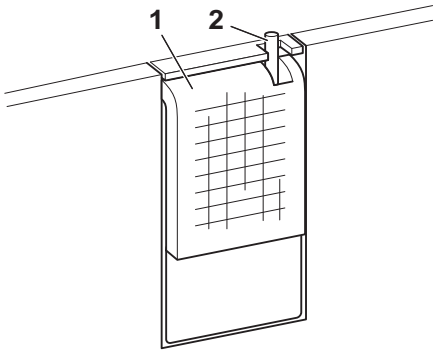
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Please read this operating manual carefully before starting the device. Keep it in a safe place for future reference. If the device is handed over to another person, this operating manual must be handed over along with the device.

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1 Notes on using the manual

Caution!
Safety instruction: Failure to observe this instruction can cause material damage and impair the function of the device.

Warning!
Safety instruction relating to a danger from an electrical current or voltage. Failure to observe this instruction can cause material damage or personal injury and impair the function of the device.

Note
Supplementary information for operating the device.

➤ **Action:** This symbol indicates that action is required on your part. The required action is described step-by-step.

✓ This symbol describes the result of an action.

fig. 1 5, page 3: This refers to an element in an illustration. In this case, item 5 in figure 1 on page 3.

Please observe the following safety instructions.

2 Safety instructions

The manufacturer will not be held liable for claims for damage resulting from the following:

- Damage to the product resulting from mechanical influences and excess voltage
- Alterations to the product without express permission from the manufacturer
- Use for purposes other than those described in the operating manual

2.1 General safety

- **Warning! Danger of electrocution!**
  When using the device on boats: If the device is powered by the mains, ensure that the power supply is protected with a ground fault interrupter circuit.
- Check that the voltage specification on the type plate corresponds to that of the energy supply.
- Only connect the device as follows:
  – using the cable supplied (fig. **1** 2, page 3) to a 12 V or 24 V battery
  – or with the enclosed connection cable (fig. **1** 3, page 3) to the 100–240 V AC mains.
- If the connection cable is damaged, it must be replaced to prevent possible electrical hazards.
- Do not pull the plug out of the cigarette lighter or the socket by the cable.
- Pull out the connection cable:
  – Before cleaning and maintenance
  – After use
  – Before changing a fuse
- Disconnect the cooling device and other power consuming devices from the battery before you connect the battery to a quick charging device. Overvoltage can damage the electronics of the device.

- Persons (including children) whose physical, sensory or mental capabilities or lack of experience and knowledge prevents them from using the appliance safely should not use this appliance without initial supervision or instruction by a responsible person.
- **Electronic devices are not toys.**
  Always keep and use the device out of the reach of children.
- Children must be supervised to ensure that they do not play with the device.
- Do not operate the device if it is visibly damaged.
- This device may only be repaired by qualified personnel. Inadequate repairs can lead to considerable hazards.
  Should your device need to be repaired, please contact customer service.
- Do not open the refrigerant circuit under any circumstances!

- The cooler is not suitable for transporting caustic materials or materials containing solvents.
- Food may only be stored in its original packaging or in suitable containers.

2.2 Operating the device safely

- **Warning! – Danger of electrocution!**
  Do not touch exposed cables with your bare hands. This especially applies when operating the device from an AC mains.
- Before starting the device, ensure that the power supply line and the plug are dry.

- **Caution!**
  Do not place any electrical devices inside the cooler.
- Set up the device in a dry location where it is protected against splashing water.
- Protect the device and the cable against rain and moisture.
- Do not place the device near naked flames or other heat sources (heaters, direct sunlight, gas ovens etc.)
- **Warning! Danger of overheating!**
  Ensure at all times that there is sufficient ventilation so that the heat generated during normal operation is able to dissipate. Ensure that the ventilation slots are not covered. Make sure that the device is sufficiently far away from walls and other objects so that the air can circulate.
- Never immerse the device in water.
- Do not fill the inner container with ice or fluid.

3 Scope of delivery

fig. **1**, page 3, shows the scope of delivery.

Item	Quantity	Description
1	1	Cooler
2	1	Connection cable for 12/24 V⎓ connection
3	1	Connection cable for 100–240 V~ connection
4	2	Carrying handle, consisting of: – 2 holders – 1 handle – 4 fastening screws
–	1	Operating manual

4 Intended use

The cooler is suitable for cooling and freezing foods. The device is also suitable for use on boats.

The appliance is designed for use with a 12 V⎓ or 24 V⎓ battery in a car, boat or caravan, or on a 100–240-V~ mains supply.

Caution – When cooling perishable medicines!
If you wish to cool medicines, please check if the cooling capacity of the device is adequate for this purpose.

5 Function description

The cooler can chill products, keep them cool as well as freeze them. A maintenance-free refrigerant circuit with compressor provides the cooling. The extra strong insulation and powerful compressor ensure especially fast cooling.

The cooler is designed for mobile use and can be carried by two detachable handles.

When used on boats, the cooler can be withstand a constant heel (inclination) of 30°.

Scope of functions:

- Power pack with priority circuit for connecting to the AC mains
- 3-level battery monitor for protecting the vehicle battery
- Programmed turbo mode for rapid cooling
- Display with temperature gauge
  switches off automatically at low battery voltage
- Temperature adjustment
  (with two buttons in steps of 1 °C (2 °F)
- Detachable carrying handles

5.1 Operating and display elements

Operating panel (fig. **2**, page 3)

Item	Description	Explanation	
1	ON OFF	Switches the cooler on or off when the button is pressed for between one and two seconds	
2	POWER	Status indication	
		LED lights up green:	Compressor is on
		LED lights up orange:	Compressor is off
		LED flashes orange:	display switched off automatically due to low battery voltage
3	ERROR	LED flashes red:	Device is switched on but not ready for operation
4	SET	Selects the input mode – Temperature setting – Celsius or Fahrenheit display – Set battery monitor	
5	–	Display, shows the information	
6	UP +	Press once to increase the value	
7	DOWN –	Press once to decrease the value	

5.2 Connections

Connection sockets (fig. 3, page 3):

Item	Description
1	Connection socket AC voltage supply
2	Fuse holder
3	Connection socket DC voltage supply

6 Operation

6.1 Before initial use

Note
Before starting your new cooler for the first time, you should clean it inside and outside with a damp cloth for hygienic reasons (please also refer to the chapter “Cleaning and maintenance” on page 37).

The handles are enclosed unassembled. If you wish to attach the handles, proceed as follows:

➤ Make a handle by putting two holders (fig. 4 1, page 4) and a handle (fig. 4 2, page 4) together.

➤ Fasten the grip with the enclosed screws in the holes provided.

Selecting the temperature units

You can switch the temperature display between Celsius and Fahrenheit. This is how to do it:

➤ Switch on the cooler.

➤ Press the “SET” button (fig. 2 4, page 3) twice.

➤ Use the “UP +” (fig. 2 6, page 3) and “DOWN -” (fig. 2 7, page 3) buttons to select Celsius or Fahrenheit.

✓ The selected temperature units then appear in the display for a few seconds. The display flashes several times before it returns to the current temperature.

Turning the lid stop around

You can turn the lid stop around if you want to open the lid from the other side.

To do this, proceed as follows:

➤ Undo the screws on the lock lugs (fig. **5** 1, page 4) and take them off.

➤ Undo the screws on the hinges (fig. **5** 2, page 4) and take them off.

➤ Lay the lid down.

➤ Fit the hinges on the side you want.

➤ Fit the lock lugs on the side you want.

6.2 Energy saving tips

- Choose a well ventilated installation location which is protected from direct sunlight.
- Allow hot food to cool down first before you place it into the device.
- Do not open the cooler more often than necessary.
- Do not leave the lid open for longer than necessary.
- Defrost the cooler once a layer of ice forms.
- Avoid unnecessary low temperatures.

6.3 Connecting the cooler

Connecting to a battery (Vehicle or boat)

The cooler can be operated with 12 V or 24 V⎓.

Warning – Danger of damaging the device!
Disconnect the cooler and other consumer units from the battery before you connect the battery to a quick charging device. Overvoltage can damage the electronics of the device.

For safety reasons the cooler is equipped with an electronic system to prevent the polarity reversal. This protects the cooler against short-circuiting when connecting to a battery.

Warning - Danger of damaging the device!
To avoid drops in voltage and therefore performance, keep the cable as short as possible and only disconnect it when necessary. For this reason avoid additional switches, plugs or power strips.

➤ Determine the required cross section of the cable in relation to the cable length according to fig. **6**, page 5.

Key for fig. **6**, page 5

Co-ordinate axis	Meaning	Unit
l	Cable length	m
∅	Cable cross section	mm²

Warning - Danger of damaging the device!
Make sure that the polarity is correct.

➤ Before starting up the device for the first time, check whether the operating voltage and the battery voltage correspond (see type plate).

➤ Make sure that the cable at the positive battery terminal (fig. **7** 2, page 5) is protected with a 15 A fuse (fig. **7** 3, page 5).

➤ Plug the 12/24-V connection cable (fig. **1** 2, page 3) into the DC socket on the cooler (fig. **7** 1, page 5).

➤ Connect the red cable (fig. **7** rt, page 5) to the positive terminal of the battery (fig. **7** 2, page 5).

➤ Connect the black cable (fig. **7** sw, page 5) to the negative terminal of the battery (fig. **7** 2, page 5).

Connecting to a 100–240 V AC mains (E.g. in the home or office)

Warning – Danger of electrocution!
Never handle plugs and switches with wet hands or if you are standing on a wet surface.

Warning – Danger of electrocution!
If you are operating your cooler on board a boat from a mains connection of 100–240 V~, you must install a residual current circuit breaker between the 100–240 V AC mains and the cooler.
Seek advice from a trained technician.

The cooler has a built-in multi-voltage mains adapter with a priority circuit for connecting to a 100-240 V~ supply. The priority circuit automatically switched to mains operation if the appliance is connected to a 100–240 V~ supply, even if the 12/24 V cable is still connected.

When switching between the AC mains and the battery supply, the red LED may light up briefly.

➤ Plug the 100–240 V connection cable (fig. **1** 3, page 3) into the AC voltage socket and connect it to the 100–240 V AC mains.

6.4 Using the battery monitor

The device is equipped with a multi-level battery monitor that protects your vehicle battery against excessive discharging when the device is connected to the on-board 12/24 V supply.

If the cooler is operated when the vehicle ignition is switched off, the cooler switches off automatically as soon as the supply voltage falls below a set level. The cooler will switch back on once the battery has been recharged to the restart voltage level.

Caution – Danger of damage!
When switched off by the battery monitor, the battery will no longer be fully charged. Avoid starting repeatedly or operating current consumers without longer charging phases. Ensure that the battery is recharged.

In “HIGH” mode, the battery monitor responds faster than at the levels “LOW” and “MED” (see the following table).

Battery monitor mode	LOW	MED	HIGH
Switch-off voltage at 12 V	10.1 V	11.4 V	11.8 V
Restart voltage at 12 V	11.1 V	12.2 V	12.6 V
Switch-off voltage at 24 V	21.5 V	24.1 V	24.6 V
Restart voltage at 24 V	23.0 V	25.3 V	26.2 V

This is how to select the battery monitor mode:

➤ Switch on the cooler.

➤ Press the “SET” button (fig. 2 4, page 3) three times.

➤ Use the “UP +” (fig. 2 6, page 3) and “DOWN -” (fig. 2 7, page 3) buttons to select the battery monitor mode.

✓ The selected mode then appears in the display for a few seconds. The display flashes several times before it returns to the current temperature.

Note
When the cooler is supplied by the starter battery, select the battery monitor mode “HIGH”. If the cooler is connected to a supply battery, the battery monitor mode “LOW” will suffice.
If you wish to operate the cooler from the AC mains, set the battery monitor to the “LOW” position.

6.5 Using the cooler

Caution – Danger of overheating!
Ensure at all times that there is sufficient ventilation so that the heat that generated during operation can dissipate. Ensure that the ventilation slots are not covered. Make sure that the device is sufficiently far away from walls and other objects so that the air can circulate.

➤ Place the cooler on a firm foundation.
Make sure that the ventilation slots are not covered and that the heated air can dissipate.

➤ Close the cooler, see “Connecting the cooler” on page 31.

Note
If you wish to operate the cooler from the AC mains, set the battery monitor to the “LOW” position.

Caution – Danger from excessively low temperature!
Ensure that the only those objects are placed in the cooler that are intended to be cooled at the selected temperature.

➤ Press the “ON/OFF” button (fig. 2 1, page 3) for between one and two seconds.

✓ The “POWER” LED lights up.

✓ The display (fig. 2 5, page 3) switches on and shows the current cooling temperature.

Note
The temperature displayed is that of the middle of the interior. The temperatures elsewhere can deviate from this temperature.

✓ The cooler starts cooling the interior.

Note
When operating with the battery, the display switches off automatically if the battery voltage is low. The LED “POWER” flashes orange.

6.6 Setting the temperature

➤ Press the “SET” button (fig. 2 4, page 3) once.

➤ Use the “UP +” (fig. 2 6, page 3) and “DOWN -” (fig. 2 7, page 3) buttons to select the cooling temperature.

✓ The cooling temperature appears in the display for a few seconds. The display flashes several times and then the current tempera-ture is displayed again.

6.7 Switching off the cooler

➤ Empty the cooler.

➤ Switch the cooler off.

➤ Pull out the connection cable.

If you do not want to use the cooler for a longer period of time:

➤ Leave the cover slightly open. This prevents odour build-up.

6.8 Defrosting the cooler

Humidity can form frost in the interior of the cooling device or on the vaporiser. This reduces the cooling capacity. Defrost the device in good time to avoid this.

Caution!
Danger of damaging the device!
Never use hard or pointed tools to remove ice or to loosen objects which have frozen in place.

To defrost the cooler, proceed as follows:

➤ Take out the contents of the cooling device.

➤ If necessary, place them in another cooling device to keep them cool.

➤ Switch off the device.

➤ Leave the cover open.

➤ Wipe off the defrosted water.

6.9 Replacing the device fuse

Warning – Danger of electrocution!
Disconnect the connection cable before you replace the device fuse.

➤ Pull off the connection cable.

➤ Pry out the fuse insert (fig. **3** 2, page 3) with a screwdriver.

➤ Replace the defective fuse with a new one that has the same rating (T2.5AL 250V).

➤ Press the fuse insert back into the housing.

6.10 Replacing the light bulb

➤ Press the switch pin (fig. 8 2, page 5) downwards so that the transparent part (fig. 8 1, page 5) of the lamp can be removed at the front.

➤ Replace the light bulb.

Note
The LEDs in the light bulb must be aligned with the transparent part of the lamp.

➤ Press the transparent part of the lamp back into the housing.

7 Cleaning and maintenance

Warning – Danger of electrocution!
Always pull out the mains plug before you clean and service the device.

Caution – Danger of damaging the device!
Never clean the device under running water or in dish water.
Do not use abrasive cleaning agents or hard objects during cleaning as these can damage the device.
Never use brushes, scouring pads or hard or pointed tools to remove ice or to loosen objects which have frozen in place.

➤ Occasionally clean the inside of the device with a damp cloth.

8 Guarantee

The statutory warranty period applies. If the product is defective, please contact the manufacturer's branch in your country (see the back of the instruction manual for the addresses) or your retailer.

For repair and guarantee processing, please include the following documents when you send in the device:

- A copy of the receipt with purchasing date
- A reason for the claim or description of the fault

9 Troubleshooting

Fault	Possible cause	Suggested remedy
Device does not function, LED does not glow.	Battery voltage is too low.	Test the battery and charge it as needed.
	No voltage present in the AC voltage socket.	Try using another plug socket.
	The device fuse is defective.	Replace the device fuse, see “Replacing the device fuse” on page 36.
	The integrated mains adapter is defective.	This can only be repaired by an authorised repair centre.
The device does not cool (plug is inserted, “POWER” LED is lit).	Defective compressor.	This can only be repaired by an authorised customer services unit.
The device does not cool (plug is inserted, “POWER” LED flashes orange, display is switched off).	Battery voltage is too low.	Test the battery and charge it as needed.
The display shows an error message (e.g. “Err1”) and the appliance does not cool.	The appliance has switched off due to an internal fault.	This can only be repaired by an authorised repair centre.

10 Disposal

➤ Place the packaging material in the appropriate recycling waste bins wherever possible.

If you wish to finally dispose of the product, ask your local recycling centre or specialist dealer for details about how to do this in accordance with the applicable disposal regulations.

11 Technical data

	CF-80	CF-110
Connection voltage:	12/24 V⎓ and 100–240 V~	
Rated current: – 12 V⎓: – 24 V⎓: – 100–240 V~:	 7.5 A 3.5 A 1.3 to 0.7 A	
Cooling range:	+10 °C to –18 °C (+50 °F to 0 °F)	
Category:	1	1
Energy efficiency class:	A+	A+
Energy consumption:	110 kWh/annum	117 kWh/annum
Gross capacity:	80 l	106 l
Usable capacity:	79 l	105 l
Climate class:	N, ST, T	N, ST, T
Ambient temperature:	+16°C – +43 °C	+16°C – +43 °C
Noise emission:	46 dB(A)	46 dB(A)
Dimensions (W x H x D) in mm:	790 x 455 x 500	790 x 555 x 500
Weight:	34 kg	37 kg

Note
If the ambient temperature is above +32 °C (+90 °F), the minimum temperature cannot be attained.

Test/certificates:

Versions, technical modifications and delivery options reserved.

The coolant circuit contains R-134a.

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4445100152 12/2011

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